SKY BAND

VENTUS UPGRADE MANUAL

LUMANTEK
Let's Ubiquitous

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Environmental Issues

Thank you for buying a product which contributes to a reduction in pollution and thereby helps save the environment.
Our products reduce the need for travel and transport and thereby reduce pollution. Our products have either no or few consumable parts (chemicals, toner, gas, paper). Our products are low energy consuming products.

Waste handling:

There is need to send material back to LUMANTEK. Please contact your local dealer for information on recycling the product by sending the main parts of the product for disassembly at local electronic waste stations.

Production of products:

Our factories employ the most efficient environmental methods for reducing waste and pollution by ensuring that the products are recyclable.

Operator Safety Summary

For your protection, please read these safety instructions completely before operating the equipment and keep this manual for future reference. The information in this summary is intended for operators. Carefully observe all warnings, precautions and instructions both on the apparatus and in the operating instructions.

T
0.5A 250V
RISK OF FIRE-
REPLACE FUSE AS MARKED
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE.
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Equipment Markings
The lighting flash symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltages” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions within literature accompanying the equipment.

Warnings
Water and Moisture - Do not operate the equipment under or near water - for example near a bathtub, kitchen sink, or laundry tub, in a wet basement, near a swimming poor or in areas with high humidity.

Cleaning - Unplug the apparatus from the wall outlet before cleaning or polishing. Do not use liquid cleaners or aerosol cleaners. Use a lint-free cloth lightly moistened with water for cleaning the exterior of the apparatus.

Ventilation - Do not block any of the ventilation openings of the apparatus. Install in accordance with the installation instructions. Never cover the slots and openings with a cloth or other material. Never install the apparatus near heat sources such as radiator, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Grounding or Polarization - Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plus has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician.

Power-Cord Protection - Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it, paying particular attention to the plugs, receptacles, at the point where the cord exits form the apparatus.

Attachments - Only use attachments as recommended by the manufacture.

Accessories - Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Lighting - Unplug this apparatus during lightning storms or when unused for long periods of time.

ISDN cables - CAUTION - to reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

Servicing - Do not attempt to service the apparatus yourself as opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty. Refer all servicing to qualified service personnel.

Damaged Equipment - Unplug the apparatus from the outlet and refer servicing to qualified personnel under the following conditions:
When the power cord or plug is damaged or frayed
If liquid has been spilled or objects have fallen into the apparatus
If the apparatus has been exposed to rain or moisture
If the apparatus has been subjected to excessive shock by being dropped, or the cabinet has been damaged
If the apparatus fails to operate in accordance with the operating instruction

1. OVERVIEW

1. Sky Band's Frequency Range - S Band is (2.633 ~ 2.660GHz),

   L Band is (1.452 ~ 1.492GHz)
   Sky Band's Power Range is from 0 to -100 dBm and Error range is ±1 dBm.
   * The power range of 50 ~ 870Mhz is 10 ~ -110 dBm.

   < Installation Tips >
   To use the optional Sky Band Attn-Plus must be at least the **version 1.2.1.0.**
   Also, T-pump version must be at least the version 3.0.0

   <Check List>
   1. VENTUS, Atten-plus manufactured in set.
   2. Later, if you purchased the Sky Band, you need to check Attn-Plus version. Therefore, the existing Attn-Plus is to update the Firmware.
   3. To find the Version, go to Help menu on T-pump program and check Atten + ID value.

   Attn-Plus's Firmware Updates are in the same order as below.

   1. Please connect [Ventus] to your PC and turn on the Power.
   2. If the T-Pump is running then shuts down the program.
   3. After you opened the compressed file, double click to run VentusAttenUpdateFirmware.exe.
   4. When the update is complete, close the window and run the T-pump program. Go to Help > About - Determine Atten Plus version is at least the version 1.2.1.1.
   5. You have completed the Updates.

1-2. Connetors Features

> Upgrade for Atten-Plus Firmware Update.
> VHF/UHF Attenpuls connector, if necessary.

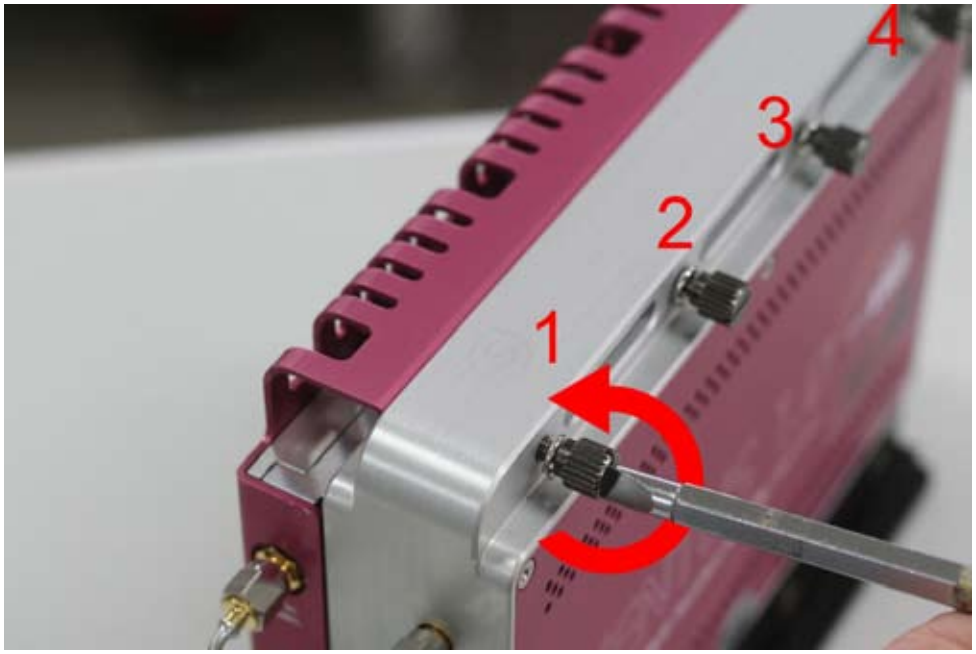
> Sky band Firmware Update, if necessary.

> Sky band Operator Connector

2. HOW TO INSTALL SKY BAND

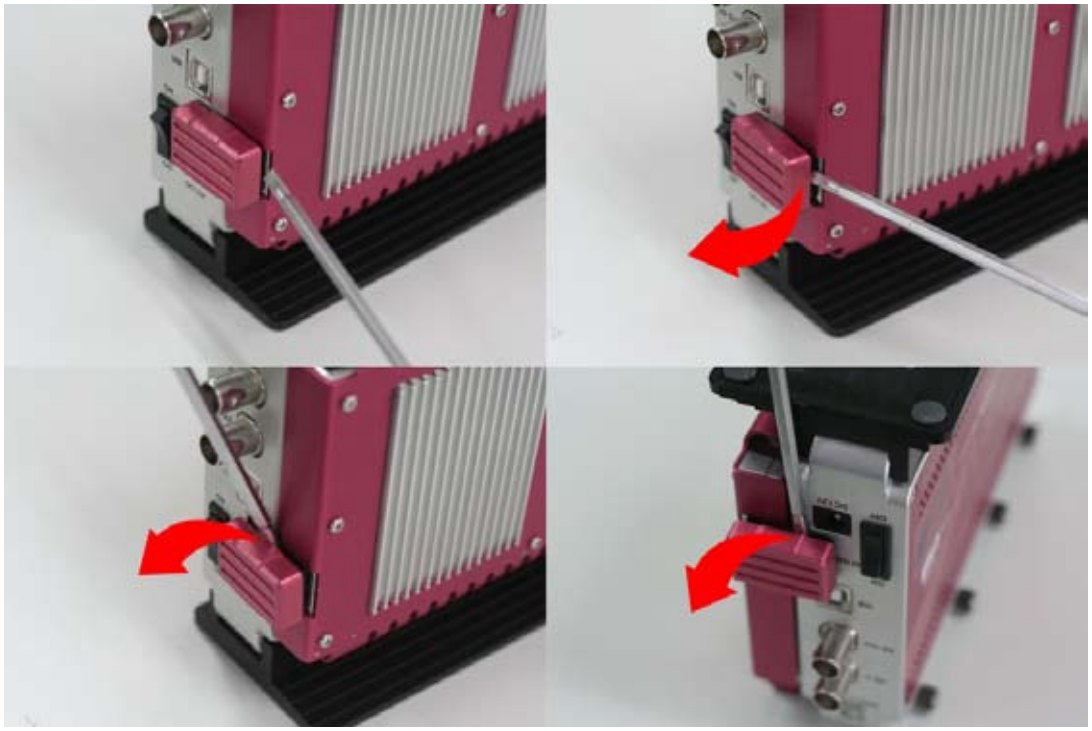
After Updating the Attn-Plus's Firmware, install the sky band as below.

1. Please unscrew four screws on Ventus.

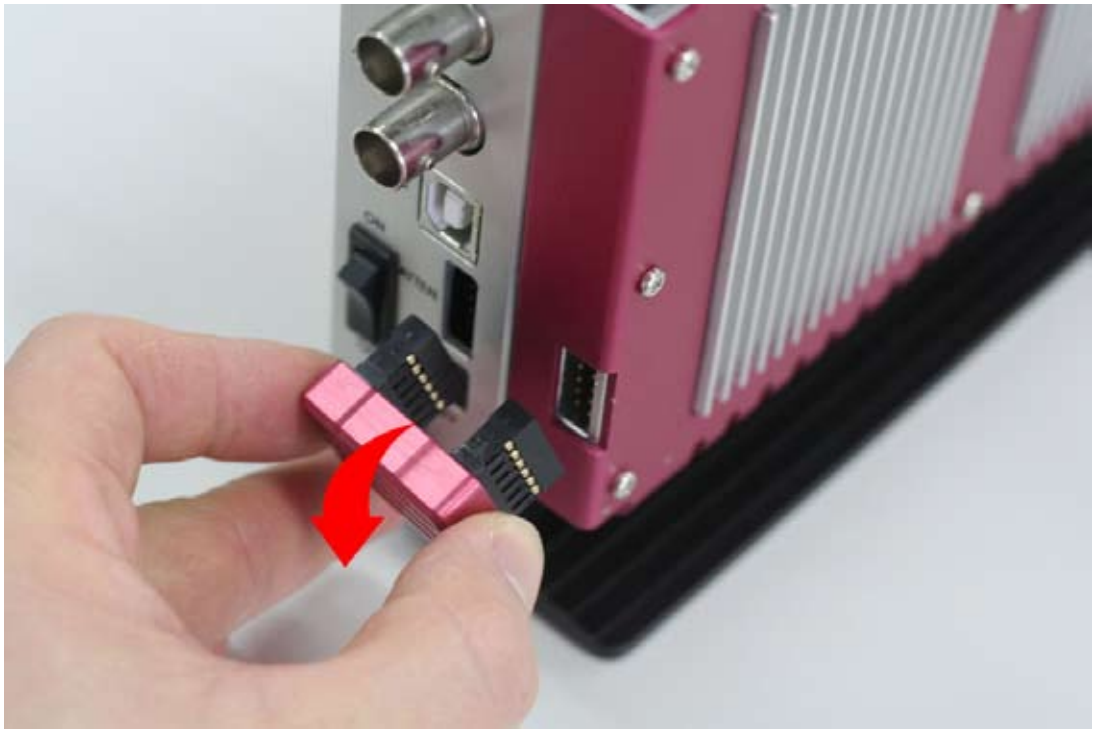


2. Please dismantle the data cable connection from Ventus.

a.

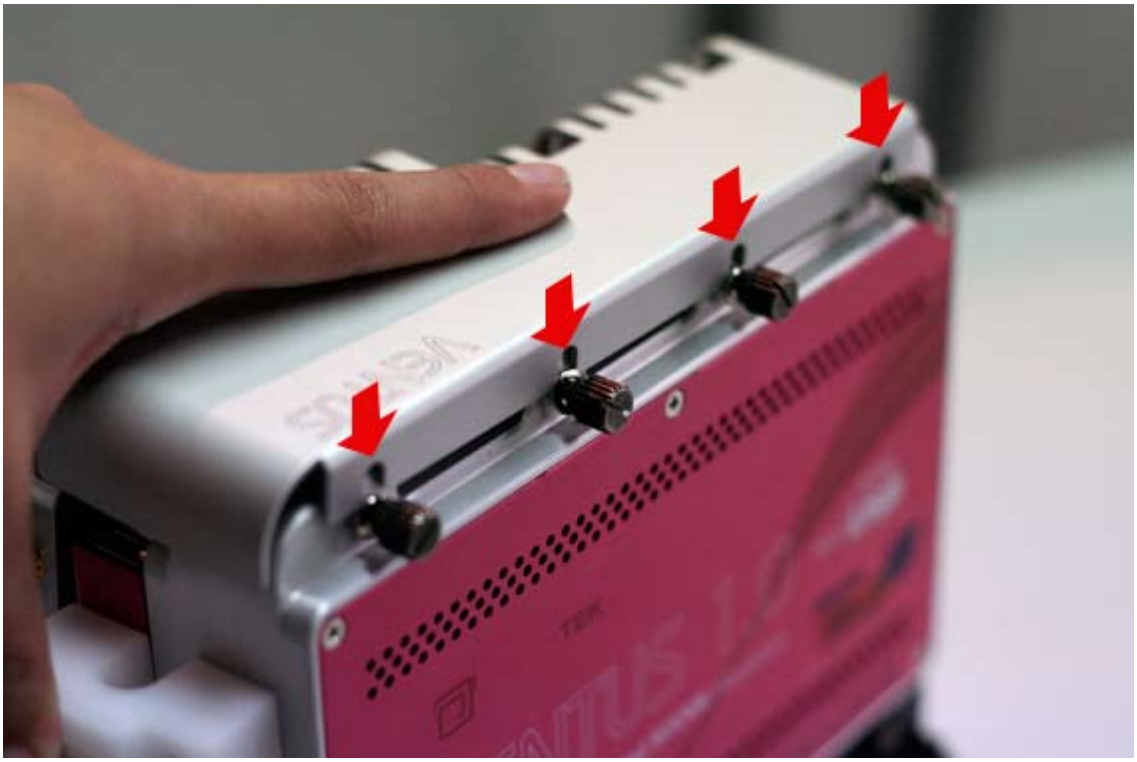


b.



3. Please attach Sky Band as shown below.

a.



b.

c.

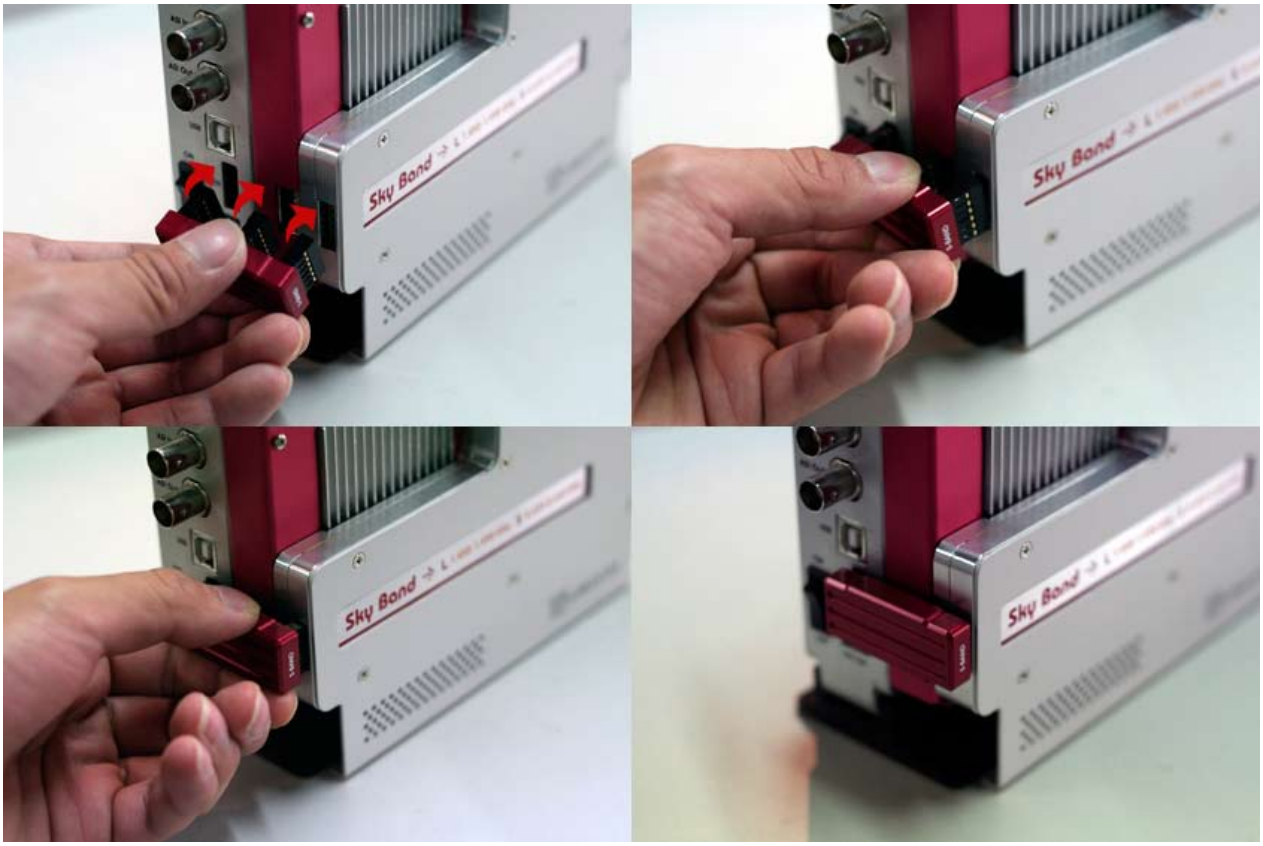
Oper.
RF Out
ASI In
ASI Out
RF Out
USB

d.

Oper.
RF Out
ASI In
ASI Out
RF Out
USB

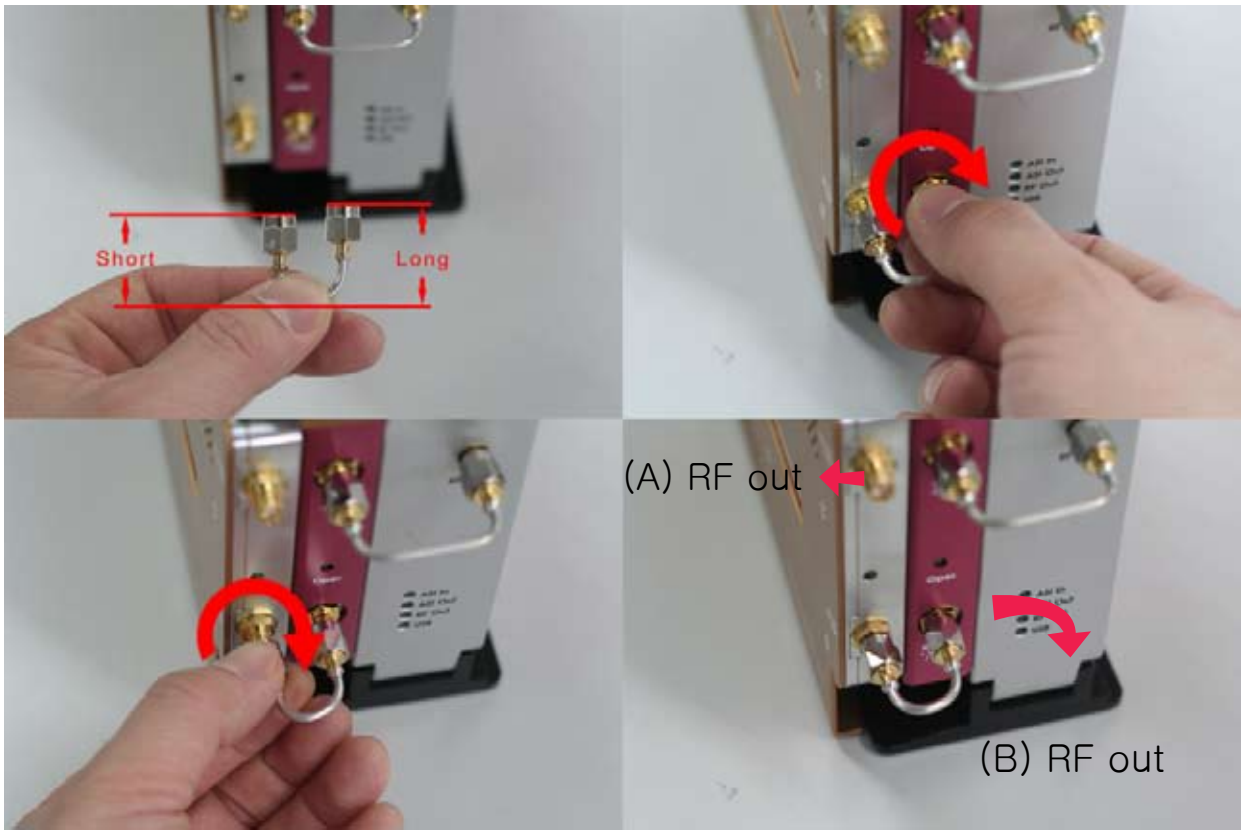
e.

4. Please connect the new data cable connection to Ventus.



5. Sky Band IF input of the output of the existing uses Attn-Plus

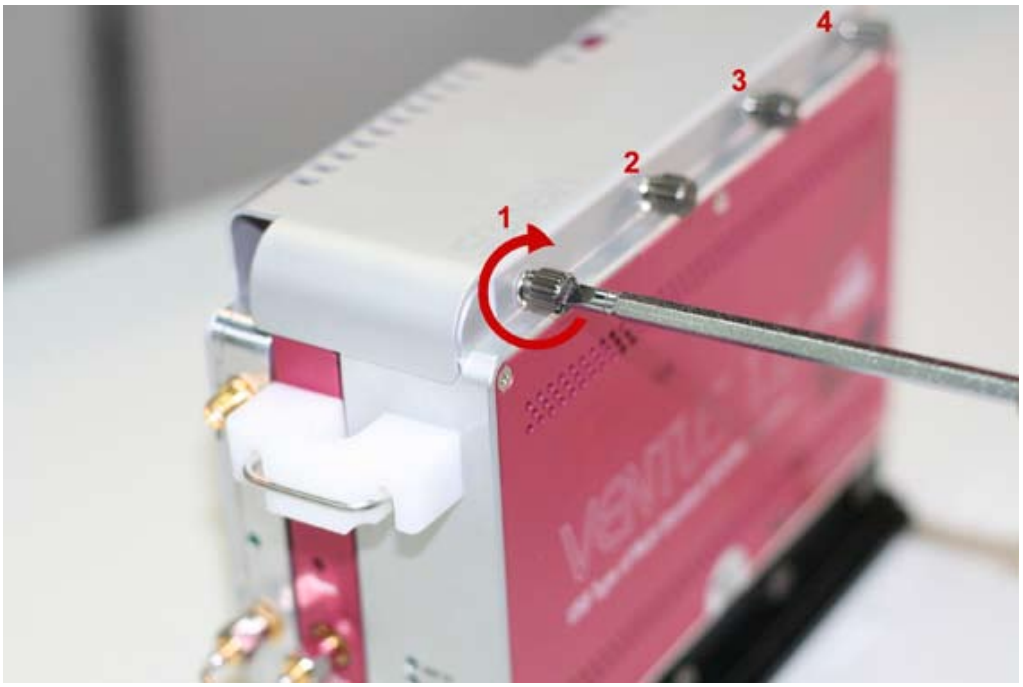
Attn-Plus Sky Band of the RF output to the input of the connection should be as shown below, S Band (2.633 ~ 2.660GHz), L Band (1.452 ~ 1.492GHz) is available.



(A) RF out : S Band(2.633 ~ 2.660GHz), L Band(1.452 ~ 1.492GHz)

(B) RF out : 50 ~ 870 MHz

6. If you finished the installation of the Sky Band, please lock the screw.



You have complited with intallation.

Please check that T-pump version must be at least the version 3.0.0.

If you have lower Version, Please dowload T-Pump program from

>> http://www.lumantek.com/down_application.html

and install version 3.0.0 or higher.

6. # 1 Attn-Plus Firmware Update method

(Require for installing Skyband Module at Attenuator firm Version Lower than 1.2.1.0)

If necessary to update Attn-Plus Firmware, remove the existing data connection and connect to the other such as the picture below.

The Attn-Plus Firmware Update need to be in the same order as below.

1. Please connect [Ventus] to your PC and turn on the Power.
2. If the T-Pump is running then shuts down the program.
3. After you opened the compressed file, double click to run VentusAttenUpdateFirmware.exe.
4. When the update is complete, close the window and turn off the power
5. Remove the data connection and re-connect the data cable connection to Ventus.
6. Run the T-pump program. then Go to Help > About - Determine Atten Plus version.
7. You have completed the Updates.

6. # 2 Sky Band Firmware Update method

(Future Skyband Firmware Upgrade requires, if necessary)

The initial version of the Sky Band Firmware is 2.1.1.1
If necessary to update Skyband (Firmware), remove the existing data connection and connect to the other such as the picture below.

The Sky Band Firmware Update need to be in the same order as below.

1. Please connect [Ventus] to your PC and turn on the Power.
2. If the T-Pump is running then shuts down the program.
3. After you opened the compressed file, double click to run Skyband UpdateFirmware.exe.
4. When the update is complete, close the window and turn off the power
5. Remove the data connection and re-connect the data cable connection to Ventus.
6. Run the T-pump program. then Go to Help > About - Determine Sky Band version.
7. You have completed the Updates.

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